



STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P.O. Box 3378  
Honolulu, HI 96801-3378

In reply, please refer to:  
File:

**NEUROTRAUMA ADVISORY BOARD (NTAB)**  
**MEETING MINUTES**  
**February 28, 2020**

Present: Rita Manriquez, Scott Sagum, Molly Trihey, Leilani Nutt, Milton Takara, Stella Wong, Valerie Yamada  
Excused: Angie Enoka, Dr. Sara Farnham, Matthew Wells  
Others: Dr. Violet Horvath, Pacific Disabilities Center (PDC); Dr. Allison Tsuchida, University of Hawaii College of Education (UH COE); Dr. Matthew Koenig, QMC; William Rodrigues, STBIAB Chair; Ipo Kaihana, Brain Injury Association (BIA)  
DOH Staff: Chelsea Ko, Neurotrauma Supports; Michele Tong, Neurotrauma Supports; Christel Magallanes, Neurotrauma Supports

- I. **Call to Order** – Meeting was called to order at 1:39 pm by Chair Scott Sagum. Quorum present.
- II. **Approval of Minutes from the December 13, 2019 meeting** –  
Board Member Stella Wong motioned to accept the minutes as written.  
Board Member Rita Manriquez seconded the motion. All Board Members

present voted in favor of minutes being accepted as written. No questions or discussions.

III. **Review of Agenda** – Agenda accepted as written. No questions or discussions.

IV. **New Business:**

A. Brain Injury Awareness Event Month March 2020:

To commemorate Brain Injury Awareness month, masks created by brain injury survivors at mask-making events statewide will be exhibited at Honolulu Hale, State Capitol, and Windward Mall. According to DOH Staff Christel Magallanes, participants from the islands of Oahu, Maui, and Hawai'i collectively produced 30 uniquely designed masks reflecting their life's experience living with brain injury. Masks will also be showcased at the March 4<sup>th</sup>, *Rock it, Don't Stock it* event at UH-Manoa Campus. Ms. Magallanes hopes the exhibit will make its way to the neighbor islands in September.

B. Neurotrauma Strategic Plan FY 2021-2023:

Neurotrauma Stakeholder's meeting will be held on March 31, 2020 at which time discussions will focus on strategic planning for FY 2021-2023. DOH Staff Chelsea Ko pointed out several topics needing stakeholder feedback such as gathering outcomes data for recovering patients and finding ways to increase the neurotrauma registry numbers. The new Neurotrauma Strategic Plan will go into effect on July 1, 2020.

V. **Old Business:**

A. Project Head, Neck, Spine (HNS) Update:

According to data collected by Project Head, Neck, Spine, the number of middle school students participating in the online curriculum increased to 300. To date, there are 1,036 middle and high school students and 9 instructors statewide utilizing the program. At least 636 students completed the course while 806 have partially completed module 4. The HNS curriculum is now offered through Google Classroom. This is an advantage because the HNS curriculum can be reach a wider audience. The disadvantage is that Google Classroom is unable to provide data on the number of students using the HNS curriculum. Dr. Allison Tsuchida of UH-COE reported that data from students accessing the program via Google Classroom are unaccounted for until they submit the “end of the module” quiz. The submitted quizzes are then added to the overall total. If the students complete the HNS curriculum but do not submit the quiz, that data will be unaccounted for.

UH-COE completed the picture book narrative of the online curriculum for the lower elementary students. The book features black and white pictures for coloring and is equipped with animation capacity. The contract with the illustrator is close to being finalized. Dr. Tsuchida and staff continue to promote the online program to other schools. They also plan to attend the annual State P.E. Health conference again to market the HNS curriculum.

Chair Scotty Sagum asked if there is evidence of the curriculum changing the behavior of students. Dr. Tsuchida replied the data has not been quantified and needs to be further researched. Board member Valerie Yamada questioned the number of schools participating in the program. Dr. Tsuchida replied a total of 5 schools; 4 in Honolulu and 1 in West Oahu.

*Please see HNTR handout for the full report*

B. RAPID Hawaii Update:

Dr. Matthew Koenig of Queens Medical Center (QMC) reported that RAPID is currently installed at QMC and Hawaii Pacific Health facilities. RAPID is an image processing application and communication tool that helps to speed up the recognition of stroke. The application determines which patients need immediate thrombectomy treatment. RAPID also helps to mitigate the concern of over-triaging patients. Per Dr. Koenig, the monies from the Neurotrauma Special Fund will pay for 3 years of RAPID services to State hospitals and a few other independent facilities. It will also assist to promote public awareness in recognizing stroke in the community. QMC is still in the contracting phase with IschemaView with each of the sites. RAPID is expected to be in operation within the next few months at the initial sites.

*Please see the RAPID Hawaii handout for the full report*

C. Pacific Disabilities Center (PDC)/Hawaii Neurotrauma Registry (HNTR) Update:

HNTR received six surveys in December, two in January, and 19 in February. To date, there are 516 unique individuals registered with the Hawaii Neurotrauma Registry.

HNTR will be presenting at the Leadership in Disabilities conference in Honolulu and is conducting the first of six sessions of the Resources for Caregivers at St. Francis in March. According to Dr. Horvath, people are requesting the HNTR presentations continue as the contract with DOH ends in June. Board Member Rita Manriquez suggested contacting the Division of Vocational Rehabilitation (DVR) on Kauai as they too were interested in learning more about the registry. Dr. Horvath is currently looking for funding to continue the education component of the project after the DOH Neurotrauma Supports contract expires.

Resource manuals for the islands of Oahu, Maui, and Kauai are now completed. The HNTR advisory board is meeting on Monday, (March 9, 2020) to discuss top needs for neurotrauma survivors.

*Please see HNTR handout for the full report*

D. Brain Injury Association (BIA) of Hawaii Update:

No update

E. Legislative Update:

No update

F. Neighbor Island Activities:

Chair Scott Sagum participated in the Lifeguards Association conference on Kauai and spoke about surfer's myelopathy. He will continue to educate those interested in the subject matter.

G. DOH Updates:

The Neurotrauma Advisory Board welcomed new board member Matthew Wells, Trauma manager and stroke coordinator at Pali Momi Hospital. He will be representing the private sector.

VI. **Announcements:**

Hui Malama Po'o: TBI Support Group

Date: 2<sup>nd</sup> Saturdays of each month

Time: 1:00-3:00 p.m.

Location: Rehabilitation Hospital of the Pacific, Wo Conference Room #4

VI. **Next Meeting:** Neurotrauma Advisory Board Meeting

Date: March 31, 2020

Time: 12:00 pm to 2:00 pm

Location: Honolulu- Oahu Veteran's Center, Cruickshank Hall  
1298 Kukila Street, Honolulu, Hawaii, 96818

VII. Upcoming 2020 Meeting Dates

June 26, August 28, October 23, and December 18

Meeting Adjourned at 2:30 p.m.

Project Head, Neck, Spine Update  
NTAB Meeting: April 24, 2020

**Six schools utilizing curriculum:**

- Six high schools, four middle schools, and two upper el. started
  - One school using in middle and high school
- Five schools on Oahu
  - 4 Honolulu (Upper El = 19; Middle N = 565; High N = 97)
    - Upper El schools have only completed pre-test so excluded from total data count
  - 1 West Oahu – 2 teachers (High = 133)
- Three schools on Maui (Middle N = 105; High N=116)
  - 17 students from Maui high schools are new this SY and have only taken pre-test so excluded from count.
- One school on Kauai (Middle N = 10; High N = 18)
- One school on Hawaii island (High N = 4)

**Data:**

- 9 instructors (\*\*three instructors used/using it for the second time)
- Total students N = 1048
  - Average summary score of 83.2%
  - 821 completed module 4 (half-way) - Average summary score: 84.8%
  - 636 complete - Average summary score: 85.9%
- Pre- and Post-test data
  - Pre-test average of 62.1%
  - Post-test average of 76.5%

**New Miscellaneous:**

- We reached out to teachers and administrators during the Covid-19 distance learning transitional period. Four new teachers signed up. Two have started.
- We are now on all of the major islands.
- Illustrator will hopefully be done will illustrations by the end of April/early May



## Hawaii Neurotrauma Registry Project

### Activities Report

This report includes only December 2019 – March 2020. The monthly details for March – November 2019 are not shown.

	<b>Registry New Enrollees (total)</b>	Oahu	Hawaii	Maui County	Kauai	<b>Outreach Activities</b>	General	Educational Presentations	
Dec-19	6	6	0	0	0	5	3	2	Dec-19
Jan-20	2	0	0	2	0	6	5	1	Jan-20
Feb-20	19	4	11	3	0	11	5	6	Feb-20
Mar-20	26	3	10	0	12	15	10	5	Mar-20
<b>TOTAL</b>	<b>253</b>	75	69	61	32	<b>136</b>	60	28	<b>TOTAL</b>
<b>Annual Target</b>	<b>300</b>	200	50	25	25	<b>240</b>	168	72	<b>Annual Target</b>
<b># to meet target</b>	<b>47</b>	<b>125</b>	<b>-19</b>	<b>-36</b>	<b>-7</b>	<b>104</b>	<b>108</b>	<b>44</b>	<b># to meet target</b>

NOTE: A few people who took the survey are from out of state and their locations are not included in the table.

NOTE: A negative number (such as -19) means the target number has not only been reached, but has been exceeded.

## Hawaii Neurotrauma Registry Project

### Information and Referral Report

This report includes only December 2019 – March 2020. The monthly details for March – November 2019 are not shown.

	Initial Contacts					Outcomes			6 month follow-ups		12 month follow-ups	
	# of I&R rec'd	Contact in 14 days	Contact after 14 days	No contact made	In Process	Took survey	Req'd res	Dec. assist	Number of 6 month follow-ups	Number contacted	Number of 12 month follow-ups	Number contacted
Dec-19	9	4	1	4	0	0	3	2	1	0	0	0
Jan-20	5	4	0	1	0	0	2	2	8	3	2	0
Feb-20	9	6	3	0	0	7	6	3	2	2	0	0
Mar-20	8	3	2	3	0	8	2	6	6	2	3	1
<b>TOT-AL</b>	<b>161</b>	<b>82</b>	<b>12</b>	<b>35</b>	<b>22</b>	<b>62</b>	<b>37</b>	<b>31</b>	<b>45</b>	<b>21</b>	<b>212</b>	<b>132</b>



**Hawai'i Neurotrauma Registry Project Report**  
**for the Neurotrauma Advisory Board**  
**April 24, 2020, 1:30 — 4:00 pm**

**Report Outline**

1. Activities and Information and Referrals Summary Tables
2. Registry Recruitment and Variables
3. Community Outreach – Events, Presentations, and Meetings

The three main goals of the Hawaii Neurotrauma Registry Project are:

1. Recruit Hawaii residents on all islands and of all ages with neurotrauma injuries to take a voluntary survey on their injuries and post-injury needs and circumstances
2. Provide education to the general public and professionals on all islands about neurotrauma injuries and the Registry
3. Offer Information and Referral services to Hawaii residents with neurotrauma injuries and their family members, caregivers, and other supports

Information gathered from the surveys assists the Department of Health in identifying the community supports and services needed by neurotrauma injury survivors, helps to educate service providers, and helps to develop safety and prevention plans and policies.

### Registry Recruitment

Year	Time Period	Number of Unique Persons
1	March 21, 2013 – March 20, 2014	40
2	March 21, 2014 – March 20, 2015	57
3	March 21, 2015 – March 20, 2016	43
4	March 21, 2016 – March 20, 2017	55
5	March 21, 2017 – March 19, 2018	52
6	March 20, 2018 – March 19, 2019	61
7	March 20, 2019 – March 19, 2020	253
7+	March 20, 2020 – April 14, 2020	1
	Total	517

### Registry Participation

With all presentations and events either cancelled or postponed, survey participation is down. One person just took the survey online.

Variable	Attribute	Number
Gender	Males	265
	Females	294
	Missing	6
Who completed the survey	Person with NT injury	133
	HNTR Staff	37
	Child of person with NT injury	43

	Spouse / Partner / Significant Other of person with NT injury	39
	Parent of person with NT injury	28
	Other	12
	Sibling of person with NT injury	14
	Other Family Member	16
	Friend	8
	Social Worker / nurse / other professional	3
	Unpaid caregiver	3
	Paid caregiver	2
	Missing	7
Location	Oahu	338

	Hawaii	105
	Maui	58
	Kauai	36
	Molokai	9
	Lanai	6
	California	4
	Indiana	1
	Washington State	2
	Nevada	1
	Wyoming	1
	Missing	8
Traumatic Brain Injury	Includes first, second, third or fourth TBI, concussion, or head injury	272

Acquired Brain Injury	Includes first, second, third or fourth ABI	49
Stroke	Type not known	16
Stroke – Hemorrhagic	Includes first, second, third or fourth hemorrhagic stroke	78
Stroke – Ischemic	Includes first, second, third fourth ischemic stroke	148
Transient Ischmic Attack		14
Spinal Cord Injury	Includes first, second, third or fourth SCI	77
Missing or unknown		19
Other	Not a neurotrauma injury	19



## **Community Outreach**

### **Events, Presentations, and Meetings – March and April 2020:**

1. HNTR Advisory Board Meeting – March 2, 2020
2. Leadership in Disabilities and Achievement in Hawaii – March 3, 2020
3. St. Francis Caregiver Presentation – March 5, 2020
4. Regency Hualalai (Kona) – March 9, 2020
5. Hawaii Community Caregiver Network Board Meeting (Kona) – March 11, 2020
6. Kona Head Injury Support Group – March 11, 2020
7. Waimea High School Health Fair (Kauai) – March 14, 2020
8. All other scheduled presentations and events were cancelled or postponed.

### **Future Events, Presentations, and Meetings:**

1. Everything has been cancelled or postponed. See below for these and other possibilities for the future.

### **Working to schedule / reschedule:**

1. Alu Like Kona
2. PATCH Professional Development Conference in Hilo
3. Resources for Caregiver presentations at REHAB

4. Dementia in the Family: Care Options and Resources
5. QMC lecture, “Reducing the Risk of Stroke for an Irregular Heartbeat”
6. Annual SPIN Conference
7. Presentation to ER trauma doctors at Pali Momi
8. Presentation to trauma nurses at Pali Momi
9. Ho’oikaika Partnership on Molokai
10. Hui No Ke Ola (healthcare hui) on Maui
11. Kauai Care Center and Regency Puakea
12. Ka’u Rural Community Health Center (Hawaii)
13. Lanakila Senior Health Fair
14. Hawaii United Okinawan Association (HUOA) Senior Health and Fitness Fair
15. Leeward Community Church

## **RAPID Hawaii: A Statewide Collaboration on Acute Stroke Care**

**Last Update: February 21, 2020**

**Current Update: April 16, 2020**

Due to the COVID-19 pandemic, priorities at the RAPID-Hawaii participating hospitals and the Queen's Medical Center have changed with regard to implementing this project during the time-frame initially projected and it is expected that the project will be delayed by at least six months if not longer.

However, during this time, the ISchemaView team was able to touch base with the participating hospitals during the month of March. Nathan Richardson, the technical expert from ISchemaView, updated the QMC team with the following report:

- **Castle Medical Center** – Had an introductory kickoff call several weeks ago with follow up with an email and questionnaire to gather necessary information for the project. Awaiting follow-up.
- **Hilo Medical Center (HHSC)** - Same as above.
- **Kauai Veterans Memorial Hospital (HHSC)** – Spoke with the administrative lead of radiology who is excited about the potential of the project but has many questions regarding CT scanner capabilities and cost. Information was sent regarding the scanner and provided the basic scan parameters for CT perfusion on that scanner via email after the call. The Queen's team will follow-up on questions regarding the process and future expense/cost after the Hawaii state grant ends in three years.
- **Kona Community Hospital (HHSC)** - Per the radiology contact, will have difficulty devoting time and resources during the COVID-19 pandemic and their hospital's recent leadership changes.
- **Kuakini Medical Center** – difficulty connecting with radiology at this time.
- **Wahiawa General Hospital** – Had an introductory kickoff call several weeks ago with a followup email to gather more information for the project. Awaiting further follow-up.

Respectfully submitted:

Cherylee Chang, MD, on behalf of the RAPID-Hawaii Statewide Collaboration